

+

+

Substitute for form 1449A/PTO

Complete if Known

(use as many sheets as necessary)

Sheet

1

Q

2

Application Number

09/669.833

Filing Date

First Named Inventor

Linda S. Mansfield

Group Art Unit

1645

Examiner Name

PASKAY

Attorney Docket Number

MSU 4.1-458

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. 1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (# known)			
AB	AA	5,935,591		Rossignol et al	8/1999	
	AB	4,883,095		Granstrom et al	3/1999	
	AC	5,830,893		Russell	11/1998	
	AD	4,747,476		Russell	5/1998	
	AE	5,925,622		Rossignol et al	7/1999	
	AF	5,725,863		Daniels et al	3/1998	
	AG	5,585,100		Mond et al	12/1996	
	AH	5,589,384		Liscombe	12/1996	
	AI	5,229,293		Matsuura et al	7/1993	
	AJ	5,223,424		Cochran et al	6/1993	
	AK	5,338,683		Paoletti	8/1994	
	AL	5,494,807		Paoletti et al	2/1996	
	AM	5,935,777		Moyer et al	8/1999	
	AN	5,928,913		Efstathiou et al	7/1999	
	AO	5,741,696		Cochran et al	4/1998	
	AP	5,731,188		Cochran et al	3/1998	
	AQ	5,266,313		Esposito et al	11/1993	
	AR	5,800,821		Acheson et al	9/1998	
	AS	5,703,055		Felgner	12/1997	
AT	AT	5,589,466		Felgner	12/1996	

UC930 U. S. PTO
00/669832



09/26/00

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

Padma Belker

Date
Considered

11/15/01

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

PTO/SB/088 (10-96)
Approved for use through 10/31/99, OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

09/26/00
09/26/00
09/26/00

Substitute for form 1449B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	09/669,833	
			Filing Date		
			First Named Inventor	Linda S. Mansfield	
			Group Art Unit	1645	
			Examiner Name	Boston	
Sheet	1	of	2	Attorney Docket Number	MSU 4.1-458

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>TS</i>	A	McKay et al., Veterinary Clinics of North America: Equine Practice for Practicing Vets. 13(1):79-96 (1997)	
	B	Blythe et al., J. Am. Vet. Med. Assoc. 210: 525-527 (1997).	
	C	Saville et al., J. Am. Vet. Assoc. 210: 519-524 (1997).	
	D	Bentz et al., J. Am. Vet. Med. Assoc. 210: 517-518 (1997).	
	E	Granstom et al., J. Vet. Diag. Invest. 5: 88-90 (1993).	
	F	Fenger et al., Vet. Parasitol. 68: 199-213 (1997).	
	G	Martenuik et al., Proceedings of the Conference of Research Workers in Animal Diseases, Chicago, IL (1997).	
	H	Motin et al., Infect. Immun. 64: 4313-4318 (1996).	
	I	Motin et al., Infect. Immun. 64: 3021-3029 (1995).	
	J	Molecular Cloning: A Laboratory Manual, Second Ed. edited by Sambrook et al. Cold Spring Harbor Lab. Press, Cold Spring Harbor, New York (1989)	
<i>TS</i>	K	Engvall et al., Immunochem. 8: 871 (1971).	

Examiner Signature	<i>Edna Bolton</i>	Date Considered	11/15/01
--------------------	--------------------	-----------------	----------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number. ³ Applicant is to place a check mark here if English language Translation is attached

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → +

PTO/SB/08A (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Sheet	2	of	2	Application Number	09 1669833
				Filing Date	
				First Named Inventor	Linda S. Mansfield
				Group Art Unit	1645
				Examiner Name	Barker
				Attorney Docket Number	MSU 4.1-458

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
[Handwritten marks]	AU	5,580,859		Felgner	12/1996	
	AV	5,561,064		Marquet et al	10/1996	
	AW	5,977,322		Marks et al	11/1999	
	AX	5,693,762		Queen et al	12/1997	
	AY	5,693,761		Queen et al	12/1997	
	AZ	5,620,845		Gould et al	4/1997	
	BA	5,559,041		Kang et al	9/1996	
	BB	5,656,448		Kang et al	8/1997	
	BC	5,728,587		Kang et al	3/1998	
	BD	5,695,928		Stewart	12/1997	
	BE	5,169,789		Bernstein	12/1992	
	BF	4,486,530		David et al	12/1984	
	BG	4,786,589		Rounds	11/1988	

FOREIGN PATENT DOCUMENTS							
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴	Kind Code ⁵ (if known)			

Examiner Signature	[Handwritten Signature]	Date Considered	11/15/01
--------------------	-------------------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐ +

Approved for use through 10/31/99. PTO/SB/088 (10-96)
 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 14490/PTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	09/69833
			Filing Date	
			First Named Inventor	Linda S. Mansfield
			Group Art Unit	1645
			Examiner Name	Ballan
			Attorney Docket Number	MSU 4.1-458
Sheet	2	of	2	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
RB	L	Ljunggren et al., J. Immunol. Methods 104: 7-14 (1987).	
	M	Kemeny et al., J. Immunol. Methods 87: 45-50 (1986).	
	N	Antibodies, A Laboratory Manual, eds. Harlow and Lane, Cold Spring Harbor Lab. Press, Cold Spring Harbor, New York, (1988).	
	O	Sloss et al., In Veterinary Clinical Parasitology, Iowa State Univ. Press, Ames, Iowa, (1994) p. 198	
	P	Marsh et al., J. Parasitology 83: 1189-1192 (1997).	
RB	Q	Speer et al., J. Protozoology 33: 486-490 (1986).	

Examiner Signature	<i>Radwa Ballan</i>	Date Considered	11/15/01
--------------------	---------------------	-----------------	----------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number. ³ Applicant is to place a check mark here if English language Translation is attached

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231